

I Claim:

1. A method of directing a mobile user with a tracking unit to at least one of a plurality of fixed target units in a predetermined region, each of said fixed target units being installed to represent at least one target entity, each of said fixed target units being adapted to broadcast a predetermined signal representative of said at least one target entity, the method comprising:

- a. assigning at least one target code to each of said plurality of fixed target units to represent at least one target entity for broadcasting by each fixed target unit;
- b. entering at least one target code to said tracking unit as said mobile user's destination;
- c. receiving at least one broadcast signal from at least one of said plurality of fixed target units using said tracking unit;
- d. verifying said at least one broadcast signal using said target code and said tracking unit;
- e. if said broadcast signal matches said target code, determining at least navigation information of said fixed target unit using said tracking unit;
- f. displaying said navigation information using said tracking unit.

2. The method of claim 1, and in which said navigation information comprises bearing information.

3. The method of claim 2, in which said fixed target unit is adapted to vary its frequency of transmission based on predetermined criteria;
in which said tracking unit is adapted to broadcast a wake-up signal, and
in which said fixed target unit, upon receiving said wake-up signal, is adapted to broadcast said predetermined signal.

4. The method of claim 3, and in which said fixed target unit is adapted to transmit a signal carrying a plurality of codes, each code being representative of a predetermined target entity.

5. The method of claim 1, and in which said tracking unit is installed with mapping software and said tracking unit is adapted to graphically display the location of said target location relative to said tracking unit using said mapping software.

6. The method of claim 1, and in which said tracking unit is adapted to receive a plurality of signals from said plurality of fixed target units, each of said signals corresponding to said target code entered by said user.

5 7. The method of claim 1, and in which said tracking unit is adapted to receive a plurality of signals from a plurality of fixed target units, corresponding to a plurality of target codes entered into said tracking unit.

10 8. The method of claim 1, and in which said tracking unit is adapted to graphically display said plurality of fixed target units.

9. The method of claim 1, and in which said tracking unit and said fixed target units jointly determine a better frequency to communicate.

15 10. The method of claim 1, further comprising:

a. entering a group code to said tracking unit, said group code being representative of a predetermined group of fixed target units ;

b. receiving a plurality of broadcast signals from said fixed target unit using said tracking unit;

20 c. verifying identity of each of said plurality of broadcast signals using said group code and said tracking unit;

d. if said signals match said group code, determining a bearing information for each of said predetermined group of target entities using said tracking unit;

25 e. displaying said bearing information for each of said group of target entities.

11. The method of claim 10, further comprising the step of:
entering a second code, representative of one target entity within said predetermined group of target entities;
30 displaying said bearing information for said target entity.

12. A system for directing a user to locate at least one target entity from a plurality of target entities, comprising:

35 a plurality of target units adapted to represent said plurality of target entities, each of said target units comprising:

a broadcast unit adapted to broadcast a target signal representative of a predetermined group of target entities;
at least one tracking unit, said tracking unit comprising:
a data entry unit adapted to enter at least one target code entered by said user;
a receiver unit adapted to receive at least one target signal from at least one target unit and to determine if said target signal matches said target code entered;
a direction-finding unit adapted to determine bearing of said target signal if said target signal matches said target code;
a display unit adapted to display the bearing of said target entity.

13. The system of claim 12, wherein:

said target unit further comprises:

a receiver unit adapted to receive a wake-up signal, said wake-up signal activating said target unit;

said tracking unit further comprises:

a transmitter unit adapted to transmit a wake-up signal to said target unit.

14. The system of claim 12, wherein:

said data entry unit for said tracking unit is adapted to receive a plurality of target codes from said user;

said receiver unit for said tracking unit is adapted to enter a plurality of target signals from a plurality of target units, and determines whether said plurality of target signals match any of said plurality of pre-loaded target codes;

said direction-finding unit is adapted to determine bearings of target signals matching said target codes;

said display unit is adapted to display all bearings of said plurality of target units.

15. The system of claim 12, wherein said tracking unit and said target unit jointly determine a more appropriate frequency for communication based predetermined quality criteria.

16. The system of claim 12, wherein each of said target units is adapted to support a plurality of target entities within a predetermined range.

17. The system of claim 16, wherein said broadcast unit is adapted to broadcast a target signal comprising a plurality strings of descriptive codes, each of said strings identifying at least one of a plurality of target entities supported by said target units.

18. The system of claim 17, wherein:
said direction-finding unit is adapted to determine one of bearing with distance and bearing without distance of a plurality of target signals;
said display unit is adapted to display said one of bearing with distance and bearing without distance of said plurality of target units.

19. The method of claim 1, wherein said tracking units is pre-loaded with a plurality of classification codes and specific target codes, wherein every entity belongs to at least one of said classification codes, wherein said specific target codes are assigned based on a set of predetermined criteria.

20. The method of claim 19, wherein said set of predetermined criteria comprises payment of fees.

21. The method of claim 1, wherein said broadcast signals of said target unit combines target code with live messages, said live messages adapted to be displayed by said tracking unit to show information provided by said target entity .

22. The method of claim 1, wherein said at least one broadcast signals comprise information from said plurality of target entities.

23. The method of claim 1, wherein said step of displaying comprises at least one of the following :

- a. displaying of routing to said target location using north, south, west and east pointers;
- b. displaying of a destination spot relative to the present location;
- c. displaying of turning direction;
- d. displaying of distance to destination by varying color, intensity, size or numbers.

24. The method of claim 12, wherein said at least one broadcast signal comprises data messages corresponding to said target entities.

25. A system for a direction finding network for a plurality of target locations within a predetermined geographic region, comprising:

a plurality of target transmitters, each of said plurality of target transmitter being adapted to broadcast a guiding signal comprising location information of at least one of said target locations and of said target transmitter;

a plurality of tracking unit, each tracking unit comprising:

a data entry unit adapted to enter a target code entered by a user;

a receiver unit adapted to receive said guiding signals from said target transmitters and to determine if one of said plurality of guiding signals matches said target code;

a direction-finding unit adapted to determine bearing information of a target location, upon a match between said target code and one of said guiding signals, based on location information of said target location and of said transmitter;

a display unit adapted to graphically display the bearing of said target location.

26. The method of claim 1, wherein said target code comprises at least one of the following:

at least one classification code;

at least one descriptive code;

at least one specific location code;

at least one business name code.

27. The system of claim 25, wherein at least one of said transmitters is deployed (hereinafter "LFS") to represent a plurality of target locations, wherein said LFS is programmed to store information about the positions of its represented target locations and to send multiple signals to represent all those target locations, wherein when said tracking unit searches any one of these target locations, said tracking unit communicates with said LFS to use the latitude and longitude information for both said LFS and target location to triangulate the bearing and distance between said tracking unit and the target location.

28. The system of claim 27, wherein a plurality of LFS's are installed and networked together to represent a plurality of cell regions, wherein said tracking unit is directed to a target location which is not in a first cell region by using hand-off by one a first LFS to a second LFS from a first cell region to a second cell region, such that said tracking unit. uses said networked LFS's to navigate all location where this networked LFS is deployed.

29. The system of claim 12, wherein at least one of said target signals combines a target code with live messages, said live messages adapted to be displayed by said tracking unit to show information provided by a target entity associated with said target code.